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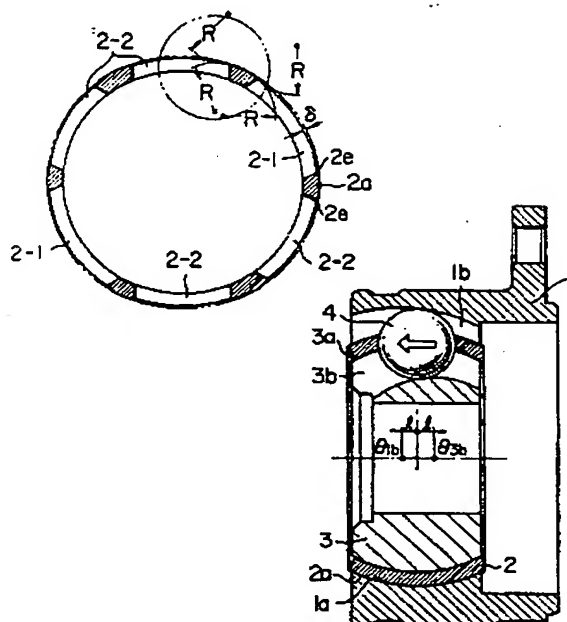
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APPLICANT : TOYOTA MOTOR CORP;

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TITLE : CONSTANT SPEED BALL JOINT



ABSTRACT : PURPOSE: To perfectly prevent a lubricating oil on the inner surface of an outer race of a ball joint from being scraped, by forming multiarc type ball window edges in a cage in the ball joint.

CONSTITUTION: A constant speed ball joint consists of an outer race 1, a cage 2, an inner race 3 and a ball 4. The center θ_{1b} of a ball rolling groove 1b in the outer race 1 and the center θ_{3b} of a ball rolling groove 3b in the inner race 3 are spaced from each other by a distance 2l, so that the ball 4 receives power in the direction of an arrow. Each of edges 2e of ball windows 2-1, 2-2 in the cage 2 has a multiarc surface of a radius R. Let δ be the difference caused by the multiarc. Owing to the multiarc type ball window edges and the difference δ , the scraping off of a lubricating oil due to a conventional undesirably formed ball window edges can be prevented.

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